

CLAIMS

1. A seal of an electric motor that is installed within a motor vehicle drive mechanism within the free construction space of a wet-running electric motor rotor or, as the case may be, oil-cooled disk gearshift element, for example, a multiple disk clutch or a multiple disk brake characterized in that to achieve a very high degree of oil- free annular gap (3) between the rotor (2) and the stator (1) of the electric motor at the face side of the electric machine annular gap (3), at least one lining (9) is arranged so that, at least at a high rate of rotation of the rotor (2), depending on the type of the gap lining, it is designed to seal without touching.

2. A seal according to claim 1, characterized in that the lining (9) is designed in such way and arranged on the rotor (2), that during a standstill or at a low rate of rotation speed it seals the annular gap (3) by touching and releases the annular gap (3) at a high rate of rotation speed.

3. A seal according to either claim 1 or 2, characterized in that the lining (9) is built through a known V-ring.

4. A seal according to claims 1 through 3, characterized in that in the annular gap (3), preferably at the lining (9), an air intake opening (10) is designed opposite the face side of the electric motor.

5. A seal according to claim 4, characterized in that the air intake opening (10) is connected through an air vent to the interior of the transmission of a motor vehicle gear mechanism connected vehicle drive.